

209, B-16 Hostel  
IIT Mandi - 175005  
Himachal Pradesh, India

## Sahil Yadav

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### Education

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Mandi, India	Indian Institute of Technology Mandi	Aug 2015 – Present
<ul style="list-style-type: none"><li>• <b>Bachelor of Technology in Computer Science and Engineering, GPA: 7.41/10.0</b></li><li>• <b>Relevant Coursework:</b> Data Structures and Algorithms, Operating Systems and Networking, System Architecture, Paradigms of Programming, Algorithm Design and Analysis, Database.</li><li>• <b>Teaching Assistant</b> for the courses Introduction to Programming, Algorithms and Data Structures, Networking and OS</li></ul>		

### Experience

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Google Summer of Code, Developer	GNU Octave	April – Aug 2018
<ul style="list-style-type: none"><li>• Implemented APIs for uploading and publishing an Octave script with all figures generated through it using the user's credentials to Octave's website.</li><li>• Implemented methods for the software which could be used for performing CRUD operations on any RESTful web service.</li><li>• The project led to easy file sharing between the website and software to distribute among the masses. Also, now the software got its RESTful Services <b>60% more compatible</b> with MATLAB, which is a crucial factor while validating any new functionality in it.</li></ul>		
Software Engineering Intern	PocketPills	June – Aug 2018
<ul style="list-style-type: none"><li>• Implemented an <b>Open Source</b> textWatcher class for Android with support for API level <math>\geq 16</math>.</li><li>• Wrote <b>non-blocking</b> CRUD operations using <b>Java Ebean</b> ORM so that cross-platform queries do not need to keep waiting.</li><li>• Implemented AWS Simple Email Service Client using Google <b>Guice DI</b> which could send out any errors on production or staging environment to the developer(s).</li><li>• Accomplished <b>100%</b> code coverage using <b>Mockito</b> and <b>Junit</b> Frameworks.</li></ul>		

### Projects

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- **Peer-to-Peer File Sharing Application(In Progress):** Design and implement a file sharing application to enable easy file sharing among the college intranet with the use of network coding and peer-to-peer protocol. The primary motive is to increase throughput while transferring.
- **Optimal Wi-Fi Connector:** Improved the client side of a server-client based application in python, by 30%, that could suggest the best possible connectivity to Wi-Fi devices in a large institution like a college, keeping network load uniform on all devices.
- **High School Portal:** Built a PHP-MySQL powered school management portal which aimed at helping the school administration and teachers communicate with students' parents and vice versa along with school reports, timetable, etc.
- **Preventing DoS attacks on Postgres API:** Tweaked the Postgres API to reject the incoming repeated expensive queries run by the database scheduler.

### Languages and Skills

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- (Proficient): C, C++, Python (Familiar): Java, JavaScript, MySQL, PHP, HTML, CSS
- Frameworks: Play MVC, Guice DI, Mockito, GNU Autotools, Google DialogFlow
- Others: Git, Mercurial, GNU Octave, MATLAB, L<sup>A</sup>T<sub>E</sub>X, IntelliJ IDEA, Linux